

Product datasheet for **SC304745**

ANKRD2 (NM_020349) Human Untagged Clone

Product data:

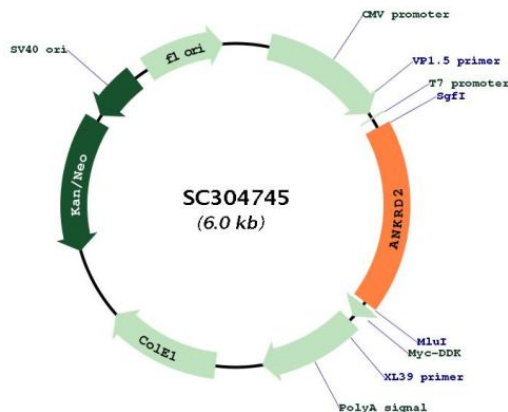
Product Type:	Expression Plasmids
Product Name:	ANKRD2 (NM_020349) Human Untagged Clone
Tag:	Tag Free
Symbol:	ANKRD2
Synonyms:	ARPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC304745 representing NM_020349. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAAAGGCGCCAGCTGGGCAGGGGTGGTGCTCTGGCCTATAAAGCCCCGAGGCCCTGTGGCCT
GCAGAGGCGGTTATGGACGGCACCATGGAGGACTCCGAGGCGGTGCAGAGGGCCACAGCGCTCATCGAG
CAGCGGCTGGCACAGGAGGAGAGAATGAGAACTCCGAGGAGACGCACGCCAGAAGCTGCCATGGAC
TTGCTGGTGTGGAGGATGAGAAGCACCACGGGGCTCAGAGTGCAGCCCTGCAGAAGGTGAAGGGCCAA
GAGCGGTGCGCAAGACGTCCCTGGACCTGCGGGGGAGATCATCGATGTGGCGGGATCCAGAACCTC
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GAGCCCGAGGAGATCACTGGCCCTGTGGATGAGGAGACCTTCTGAAAGCTGCGGTGGAGGGGAAAATG
AAGGTCATTGAGAAGTTCTGGCTGACGGGGGTGACCCGACACGTGCGACCAAGTCCGTGCGACAGCA
CTGACCCGAGCTTCCCTGGAAGGCCACATGAAATCCTGGAGAAGCTTCTAGATAATGGGGCCACTGTG
GACTTCCAGGATCGGCTGGACTGCACAGCCATGCATTGGGCTGCCGCGGGGGCCACTTAGAGGTGGTG
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GCAGTCCGGACAGGGCAGGTGGAGATTGTGGAGCACTTCTATCCCTGGGCTGGAAATCAATGCCAGA
GACAGGGAAGGGGATACTGCCCTGCATGACGCTGTGAGGCTCAACCGCTACAAAAATCATAACTGCTG
CTCCTGCATGGGCTGACATGATGACCAAGAACCTGGCAGGAAAGACCCCGACCGACCTGGTGCAGCTC
TGGCAGGCTGATACCCGGCACGCCCTGGAGCATCCTGAGCCGGGGCTGAGCATAACGGGCTGGAGGGG
CCTAATGATAGTGGGCGAGAGACCCCTCAGCCTGTGCCAGCCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:


ACCN: NM_020349

Insert Size: 1083 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_020349.3](#)

RefSeq Size: 1520 bp

RefSeq ORF: 1083 bp

Locus ID: 26287

UniProt ID: [Q9GZV1](#)

Cytogenetics: 10q24.2

MW: 39.9 kDa

Gene Summary: This gene encodes a protein that belongs to the muscle ankyrin repeat protein (MARP) family. A similar gene in rodents is a component of a muscle stress response pathway and plays a role in the stretch-response associated with slow muscle function. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2014]
Transcript Variant: This variant (1) represents the use of a downstream in-frame start codon compared to the AUG used in the transcript that produces isoform c. The encoded isoform (a, also known as M-Ankrd2) has a shorter N-terminus compared to isoform c.